

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------|---------|------------------|
| S22 | 72410 | pins with (oppos\$4 different "90" orthogonal perpendicular "180") with direction | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/08 10:30 |
| S23 | 438 | S22 and magnetic with (test\$3 measur\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/08 10:31 |
| S24 | 54 | S22 and magnetic adj head with (test\$3 measur\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/08 10:46 |
| S25 | 1 | IC with pin same (test\$3 measur\$3 inspect\$3) and magnetic adj head with (test\$3 measur\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/08 10:52 |
| S26 | 1 | characteristic near3 device with pin same (test\$3 measur\$3 inspect\$3) and magnetic adj head with (test\$3 measur\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/08 10:54 |
| S27 | 1 | characteristic near3 device with pin same (test\$3 measur\$3 inspect\$3) and magnetic adj head | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/08 10:54 |
| S28 | 401 | characteristic near3 device same (test\$3 measur\$3 inspect\$3) and magnetic adj head | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/08 10:54 |
| S29 | 66 | characteristic near3 device same (test\$3 measur\$3 inspect\$3) with magnetic adj head | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/08 10:55 |

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|-----|----|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----|----|------------------|
| S30 | 13 | "5589771" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/08 13:03 |
| S31 | 13 | "6437562" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/08 13:07 |
| S32 | 4 | ("6330744" "5302891").pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/08 13:29 |
| S33 | 1 | "5909124".PN. | USPAT; USOCR | OR | ON | 2005/07/08 13:23 |
| S34 | 1 | "5869974".PN. | USPAT; USOCR | OR | ON | 2005/07/08 13:27 |
| S35 | 1 | "5828226".PN. | USPAT; USOCR | OR | ON | 2005/07/08 13:28 |
| S36 | 9 | ("5396032" "5440240" "5453991" "5798652").pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/08 13:34 |
| S37 | 1 | "5338899".PN. | USPAT; USOCR | OR | ON | 2005/07/08 13:31 |
| S38 | 14 | ("6020745" "6091250" "6091251" "6160412" "6166556" "6278128" "6129579").pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/08 13:43 |
| S39 | 18 | ("4421266" "5217093" "5801728" "6135782" "6234842" "5410259" "5973504" "6184576" "6218203"). pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/08 14:25 |
| S40 | 23 | ("6218203" "4899106" "5489853" "5546405" "5585739" "5594357" "5600259" "5726624" "5969535" "5986460" "6075373" "6250933"). pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/08 14:33 |

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| S41 | 16 | ("6255727" "6336269" "6399900" "6441629" "6471538" "6504223" "6540524" "6576301" "6586956"). pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/08 14:35 |
| S42 | 19 | ("6677245" "6736665" "5329226" "4961052" "5321453" "5404111" "5550482").pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/08 14:35 |
| S43 | 1 | "5495371".PN. | USPAT; USOCR | OR | ON | 2005/07/08 14:56 |
| S44 | 1 | "5455730".PN. | USPAT; USOCR | OR | ON | 2005/07/08 14:56 |
| S45 | 1 | "5410439".PN. | USPAT; USOCR | OR | ON | 2005/07/08 14:57 |
| S46 | 1 | "5898303".PN. | USPAT; USOCR | OR | ON | 2005/07/08 14:57 |
| S47 | 1 | "5854554".PN. | USPAT; USOCR | OR | ON | 2005/07/08 14:58 |
| S48 | 1 | "5589771".PN. | USPAT; USOCR | OR | ON | 2005/07/08 14:58 |
| S49 | 1 | "6111406".PN. | USPAT; USOCR | OR | ON | 2005/07/08 14:58 |
| S50 | 1 | "5721488".PN. | USPAT; USOCR | OR | ON | 2005/07/08 14:59 |
| S51 | 1 | "5668477".PN. | USPAT; USOCR | OR | ON | 2005/07/08 14:59 |
| S52 | 1 | "5936789".PN. | USPAT; USOCR | OR | ON | 2005/07/08 14:59 |
| S53 | 1 | "5721488".PN. | USPAT; USOCR | OR | ON | 2005/07/08 14:59 |
| S54 | 1 | "6027397".PN. | USPAT; USOCR | OR | ON | 2005/07/08 14:59 |
| S55 | 1 | "5784772".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:01 |
| S56 | 1 | "6016692".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:01 |
| S57 | 1 | "5761009".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:01 |
| S58 | 1 | "5703485".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:02 |
| S59 | 1 | "5589777".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:02 |

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| S60 | 1 | "5589777".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:02 |
| S61 | 1 | "5589777".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:02 |
| S62 | 1 | "5559429".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:02 |
| S63 | 1 | "5557492".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:02 |
| S64 | 1 | "5514953".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:02 |
| S65 | 1 | "5254941".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:03 |
| S66 | 1 | "4862078".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:03 |
| S67 | 1 | "5936789".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:03 |
| S68 | 1 | "5721488".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:03 |
| S69 | 1 | "6027397".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:04 |
| S70 | 1 | "6016692".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:04 |
| S71 | 1 | "5784772".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:04 |
| S72 | 1 | "5761009".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:04 |
| S73 | 1 | "6027397".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:07 |
| S74 | 1 | "6016692".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:07 |
| S75 | 1 | "5761009".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:07 |
| S76 | 1 | "5703485".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:07 |
| S77 | 1 | "5589777".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:07 |
| S78 | 1 | "5559429".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:07 |
| S79 | 1 | "5557492".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:07 |
| S80 | 1 | "5514953".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:07 |
| S81 | 1 | "5508614".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:07 |
| S82 | 1 | "5254941".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:10 |

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| S83 | 1 | "5254941".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:10 |
| S84 | 1 | "4912883".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:10 |
| S85 | 1 | "4862078".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:10 |
| S86 | 1 | "5926019".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:11 |
| S87 | 1 | "5479098".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:11 |
| S88 | 1 | "5389876".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:11 |
| S89 | 1 | "4873757".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:11 |
| S90 | 1 | "4873757".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:11 |
| S91 | 1 | "4853633".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:11 |
| S92 | 1 | "4703382".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:12 |
| S93 | 1 | "4494100".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:12 |
| S94 | 1 | "4425511".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:12 |
| S95 | 1 | "4313151".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:12 |
| S96 | 1 | "4121156".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:12 |
| S97 | 1 | "3820110".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:12 |
| S98 | 1 | "3710235".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:12 |
| S99 | 2 | "3504276".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:12 |
| S10 0 | 1 | "6134075".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:13 |
| S10 1 | 1 | "6034851".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:15 |
| S10 2 | 1 | "5955176".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:15 |
| S10 3 | 1 | "5883759".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:15 |
| S10 4 | 1 | "5870258".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:16 |
| S10 5 | 1 | "5834084".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:16 |

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| S10 6 | 1 | "5834084".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:16 |
| S10 7 | 1 | "5508611".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:16 |
| S10 8 | 1 | "5282103".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:16 |
| S10 9 | 1 | "5219640".PN. | USPAT; USOCR | OR | ON | 2005/07/08 15:16 |
| S11 0 | 0 | 333/01.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/11 14:50 |
| S11 1 | 406 | 333/1.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/11 14:50 |
| S11 2 | 6 | S111 and pin with direction | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/11 16:10 |
| S11 3 | 2 | "5639266".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 07:58 |
| S11 4 | 2 | "5647770".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/11 16:27 |
| S11 5 | 2 | "5618185".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/11 16:42 |
| S11 6 | 1 | "5328390".PN. | USPAT; USOCR | OR | ON | 2005/07/12 07:56 |

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| S11 7 | 12037 | crossstalk with reduc\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 07:59 |
| S11 8 | 1666 | S117 and pin | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 07:59 |
| S11 9 | 1373 | S118 and (align\$4 direction angle) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 08:00 |
| S12 0 | 933 | S119 and ("90" "180" perpendicular) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 08:01 |
| S12 1 | 291 | S117 and pin same ("90" "180" perpendicular angle) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 08:05 |
| S12 2 | 44 | S117 and pin same direction with ("90" "180" perpendicular angle) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 08:18 |
| S12 3 | 0 | S117 and pin same direction with large\$3 with angle | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 08:20 |
| S12 4 | 0 | S117 and pin same approach near direction with angle | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 08:20 |

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| S12 5 | 9 | S117 and pin same direction with angle | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 08:21 |
| S12 6 | 1 | "5310363".PN. | USPAT; USOCR | OR | ON | 2005/07/12 08:30 |
| S12 7 | 1 | "5299956".PN. | USPAT; USOCR | OR | ON | 2005/07/12 08:36 |
| S12 8 | 1 | "5295869".PN. | USPAT; USOCR | OR | ON | 2005/07/12 08:36 |
| S12 9 | 1 | "5282754".PN. | USPAT; USOCR | OR | ON | 2005/07/12 08:38 |